Fujitsu recommends Windows 8 Pro.



# Data Sheet Fujitsu ESPRIMO P410 E85+ Desktop PC

Your Immediately Deliverable Office PC

The Fujitsu ESPRIMO P410 microtower PC delivers high-quality computing for your office applications and projects. You can choose cost-optimized fixed configurations for immediate delivery. Alternatively, you can use configuration options to meet your specific hardware needs. With its new design it fits perfect into the modern office. ENERGY STAR® compatibility ensures a low energy bill.

# High performance and best price/performance ratio

Cost-effective system for price-conscious customers

■ 3rd generation Intel® Core<sup>™</sup> i3, Core<sup>™</sup> i5, and Core<sup>™</sup> i7 processors

# Flexibility

Freedom of choice with tailored systems, perfect fit for specific requirements

■ Flexible logistic concept - optional customizing program

#### Reliability

High-quality and functional stability

■ Development and production in Europe

## Lifecycle

Hardware continuity for long-term projects

■ Managed lifecycle up to 12 months

# Meets ENERGY STAR® requirements

Low power consumption and low costs, without any loss in performance

■ Power supply with 85% efficiency







# Components

Drocessor	Intel® Core™ i7-3770 processor (4 Cores / 8 Threads, 3.40 GHz, up to 3.9 GHz, 8 MB, Intel® HD Graphics 4000) *
Processor	Intel® Core™ i5-3470 processor (4 Cores / 4 Threads, 3.20 GHz, up to 3.6 GHz, 6 MB, Intel® HD Graphics 2500) *
	Intel® Core™ i5-3330 processor (4 Cores / 4 Threads, 3.20 driz, up to 3.2 GHz, 6 MB, Intel® HD Graphics 2500)
	Intel® Core™ i3-3220 processor (2 Cores / 4 Threads, 3.30 GHz, 3 MB, Intel® HD Graphics 2500)
	Intel® Pentium® processor G870 (2 Cores / 2 Threads, 3.10 GHz, 3 MB, Intel® HD Graphics)
	Intel® Pentium® processor G2120 (2 Cores / 2 Threads, 3.10 GHz, 3 MB, Intel® HD Graphics)
	Intel® Pentium® processor G2030 (2 Cores / 2 Threads, 3.00 GHz, 3 MB, Intel® HD Graphics)
	Intel® Pentium® processor G2020 (2 Cores / 2 Threads, 2.90 GHz, 3 MB, Intel® HD Graphics)
	Intel® Celeron® processor G1610 (2 Cores / 2 Threads, 2.60 GHz, 2 MB, Intel® HD Graphics)
	*with Intel® Turbo Boost Technology (clock speed and performance will vary depending on workload and other
	variables)
Operating systems	
Operating system	Windows 8 Pro
	Windows 8
	Windows® 7 Professional 64-bit
	Windows® 7 Professional 32-bit
Operating system compatible	openSUSE Linux
	Windows® XP
Operating system notes	Limited Windows® XP support. Microsoft discontinued Windows® XP certification on system level, basic drivers via
	http://support.ts.fujitsu.com
Nemory modules	2 GB (1 module(s) 2 GB) DDR3, unbuffered, non-ECC, 1600 MHz, PC3-12800, DIMM
	4 GB (1 module(s) 4 GB) DDR3, unbuffered, non-ECC, 1600 MHz, PC3-12800, DIMM
	8 GB (1 module(s) 8 GB) DDR3, unbuffered, non-ECC, 1600 MHz, PC3-12800, DIMM
lard disk drives (internal)	SSHD SATA III, 5400 rpm, 500 GB, 2.5-inch
, ,	SSD SATA III, 256 GB, 2.5-inch
	SSD SATA III, 128 GB, 2.5-inch, SED
	SSD SATA III, 128 GB, 2.5-inch
	HDD SATA III, 7200 rpm, 2000 GB, 3.5-inch
	HDD SATA III, 7200 rpm, 1000 GB, 3.5-inch
	HDD SATA III, 7200 rpm, 500 GB, 3.5-inch
	HDD SATA III, 7200 rpm, 250 GB, 3.5-inch
	HDD SATA II, 5400 rpm, 320 GB, 2.5-inch
Hard disk notes	Up to 20 GB of HDD space is reserved for system recovery
	SSHD (Solid State Hard Disk, Hybrid drive)
	SSD (Solid State Disk)
	SED (Self-Encrypting Drive)
Graphics	NVIDIA® GeForce® GT630 DisplayPort 2GB FH, 2 GB
	NVIDIA® GeForce® 605 DisplayPort 1GB FH, 1 GB
	DP to DVI-D (single link) Adapter Cable
	ATI Radeon® HD7350 1GB FH, 1 GB
Drives (optional)	BD Triple Writer SATA slim (tray)
	DVD-ROM
	DVD Super Multi MultiCard Pooder 2/ in 1 USP 2 0 2 F"
	MultiCard Reader 24in1 USB 2.0 3.5"

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nterface add on cards/components	
(optional)	
	WLAN III, 802.11g/Draft-n (Windows only, dedicated regions only)
	USB 3.0 PCIe x1
	Gigabit Ethernet PCle x1, DS
	Dual serial card PCIe x1
Base unit	ESPRIMO P410 E85+
Mainboard	
Mainboard type	D3120
Formfactor	μΑΤΧ Intel® H61
Chipset Processor socket	LGA 1155
Processor quantity maximum	1
Memory slots	2 DIMM (DDR3)
Supported capacity RAM (max.)	16 GB
Memory frequency	1600 MHz
Memory notes	Dual channel support.
nemory notes	For dual channel performance, identical memory modules in each channel are necessary (minimum 2 modules).
LAN	10/100/1000 MBit/s Realtek RTL 8111E
BIOS version	AMI Aptio 4.6
BIOS features	BIOS Flash EPROM update by software
	Recovery BIOS
	Unified Extensible Firmware Interface (UEFI)
Audio codec	Realtek ALC663
Audio features	High Definition Audio, 5.1 surround sound
/O controller on board	
	2
Serial ATA total	3
Controller functions	Serial ATA II (3 Gbit)
	NCQ
	AHCI
nterfaces	
Audio: line-in	1
Audio: line-in / microphone	1
Audio: line-out	1
Front audio: microphone	1
Front audio: headphone	1
USB 2.0 total	8
USB 3.0 total	optional
USB front	2
USB rear	4
USB internal	2
<b>V</b> GA	1
DVI	1 (DVI-D)
Mouse / Keyboard (PS/2)	1/1
Ethernet (RJ-45)	1
nput device / components	
p. 2. delite i componento	Optical USB wheel mouse
nput devices (optional)	Optical USB/PS2 tilt wheel mouse
iipat aevices (optional)	KBPC PX ECO
	Mouse M440 ECO
Drive bays	r
Drive bays total	5
Drive bays total 3.5-inch internal bays	2
Drive bays total 3.5-inch internal bays 3.5-inch external bays	2 1
Drive bays total 3.5-inch internal bays	2

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PCP-Express 2, 0x16	Slots	
PCF-Express x1		1 x (210 mm / 8.27 inch) Full height
Graphics formed name (intel® HD Graphics, HD Graphics 2500, HD Graphics 4000 (depending on CPU)  1074 7 869 pixel 1074 7 8769 pixel 1280 x 1024 pixel 1380 x 1789 pixel 1480 x 900 pixel 1600 x 1200 pixel 1970 x		
Graphics Pand name  Incel® HB Graphics, HD Graphics 2000, HD Graphics 2500, HD Graphics 4000 (depending on CPU)  Shared video memory  Up to 1759 MB  1700 x 1074 px68 pixel  1600 x 900 pixel  1600 x 1200 pixel  1600 x 1000 pix	·	
Shared video memory	-	Intol® UD Craphics UD Craphics 2000 UD Craphics 2500 UD Craphics (1000 (depending on CDII)
102   102		
1280 x 1024 pixel   1360 x 789 pixel   1460 x 900 pixel   1460 x 900 pixel   1600 x 900 pixel   1600 x 900 pixel   1600 x 1000 pixel   1800 x 1000 pixel   1800 x 1000 pixel   1920 x 1000 pixel   1920 x 1000 pixel   1920 x 1000 pixel   1460 x 900 pixel   1460 x 900 pixel   1460 x 900 pixel   1600 x 900 pixel   1600 x 900 pixel   1600 x 900 pixel   1800 x 1000 pix		
1360 x 768 pixel   1440 x 900 pixel   1600 x 900 pixel   1600 x 1700 pixel   1920 x 1200 pixel   1920 x 1200 pixel   1920 x 1200 pixel   1920 x 1200 pixel   1600 x 1600 pixel   1600 x 1600 pixel   1600 x 1600 pixel   1600 x 1030 pixel   1600 x 1000 pixel   1600 x	Ti resolution (VdA)	·
1.440 x 900 pixel   1600 x 900 pixel   1600 x 900 pixel   1600 x 1000 pixel   1200 x 1200 pixel   1200 x 1200 pixel   1200 x 1200 pixel   1400 x 900 pixel   1600 x 900 pixel   1600 x 900 pixel   1600 x 900 pixel   1600 x 900 pixel   1200 x 1200 pixel		
1600 x 1200 pixel   1600 x 1600 pixel   1920 x 1600 pixel   1920 x 1600 pixel   1600 x 766 pixel   1600 x 1600 pixel   1600 x 1600 pixel   1600 x 1600 pixel   1600 x 1600 pixel   1600 x 900 pixel   1600 x 900 pixel   1600 x 1600 pixel   1920 x		
In Equation (DVI)   In E		· ·
File (Dec x 100 pixel   1920 x 1080 pixel   1680 x 1050 pixel   1680 x 1050 pixel   1680 x 1050 pixel   1680 x 1050 pixel   1920 x 1080 pixel		!
1920 x 1080 pixel   1920 x 1080 pixel   1920 x 1090 pixel   1440 x 900 pixel   1440 x 900 pixel   1600 x 900 pixel   1920 x 1200 pix		·
TFT resolution (DVI)         1.560 x 78.8 pxel           1440 x 900 pixel         1660 x 1050 pixel           1920 x 1200 pixel         1920 x 1200 pixel           Graphics features         Dual display support           Open CL® 3.3 (depending on CPU)         HDCP support           Open CL® 3.3 (depending on CPU)         Open CL® 3.3 (depending on CPU)           Open CL® 1.1 (depending on CPU)         Open CL® 1.1 (depending on CPU)           For TFT we recommend using 60Hz         Provide Company of the company depending on main memory size and operating system           Resolution (color depth up to 3.2 Bit/pixell)         For TFT we recommend using 60Hz           Electrical values         Owatt mode with hard off switch           Rated requency range         Owatt mode with hard off switch           Rated requency range         50 Hz. 60 Hz           Operating line frequency range         50 Hz. 60 Hz           Operating ine frequency range         47 Hz. 63 Hz           Max. output of single power supply         280 W           Power consumption note         See white paper Energy Consumption           Link to Energy White Paper         http://docs.ts.fujitsu.com/dl.aspx?id=cbab6857-c962-423e-9fa4-0659274833cf           Heat dissipation         See white paper Energy Consumption           Noise emission         According to Iso 0.777.779.2010, ECMA-74		·
140 x 900 pixel   1600 x 900 pixel   1600 x 1050 pixel   1920 x 1000 pixel   10.1 or DirectX® 11 (depending on CPU)   HDCP support   Open Ct® 3.3 (depending on CPU)   Open Ct® 1.1 (depending on CPU)   Open Ct® 1.1 (depending on CPU)   Open Ct® 1.1 (depending on Major pixel pix		·
1600 x 900 pixel   1680 x 1050 pixel   1680 x 1050 pixel   1920 x 1200 pixel   10 pixet x** 11 (depending on CPU)   HDCP support   10 pen Cl** 3.3 (depending on CPU)   HDCP support   10 pen Cl** 3.3 (depending on CPU)   0 pen Cl** 3.3 (	TFT resolution (DVI)	1360 x 768 pixel
1680 x 1050 pixel   1920 x 1200 pixel   1920		
1920 x 1080 pixel   1920 x 1080 pixel   1920 x 1000 pixel   1920 x 1200 pixel   1920		
1920 x 1200 pixel   Graphics features   Dual display support   DirectX** 0.11 or DirectX** 0.11 or DirectX** 0.11 (depending on CPU)   Depen CL** 0.33 (depending on CPU)   Depen CL** 0.33 (depending on CPU)   Depen CL** 1.1 (depending on main memory size and operating system   Resolution (color depth up to 3.2 Bit/pixel)   For TFT we recommend using 60Hz		
Graphics features Dual display support Directs*** 1.1 of Directs*** 11 (depending on CPU) HDCP support Open CL® 3.3 (depending on CPU) Open CL® 1.1 (depending on Depending on display type additional resolutions and frequencies possible Shared memory depending on main memory size and operating system Resolution (color depth up to 32 Bit/pixel) For IFT we recommend using 60Hz  Electrical values  Power efficiency note Owatt mode with hard-off switch Rated voltage range Owatt mode with hard-off switch Rated voltage range Operating voltage range Operating ine frequency range 50 Hz - 60 Hz Operating ine frequency range 90 V - 264 V Operating line frequency range 47 Hz - 63 Hz Max. output of single power supply Power factor correction/active power Active Monitor outlet No  Power consumption  Power consumption note See white paper Energy Consumption Link to Energy White Paper Head dissipation Head dissipation Head dissipation notes See white paper Energy Consumption Noise emission  Related Processors for noise Link of Energy Consumption  Noise emission  According to 150 7779-2010, ECMA-74  Standard noise operation mode: CPU Standard noise op		
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Rated voltage range       100 V - 240 V         Rated frequency range       50 Hz - 60 Hz         Operating line frequency range       47 Hz - 63 Hz         Max. output of single power supply       280 W         Power factor correction/active power       active         Monitor outlet       No         Power consumption       See white paper Energy Consumption         Link to Energy White Paper       http://docs.ts.fujitsu.com/dl.aspx?id=cbab6857-c962-423e-9fa4-0859274833cf         Heat dissipation       See white paper Energy Consumption         Noise emission       See white paper Energy Consumption         Noise emission       See white paper Energy Consumption         Standard noise emission       2x2 GB, HDD, ODD, Windows According to ISO 7779:2010, ECMA-74         Standard noise notes / description       A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A)) Bystander position         Standard noise operation mode: CPU       3.5 B / 22 dB(A) Bystander; 25 dB(A) Operator position         Standard noise operation mode: HDD       3.6 B / 23 dB(A) Bystander; 26 dB(A) Operator position		
Operating voltage range         90 V - 264 V           Operating line frequency range         47 Hz - 63 Hz           Max. output of single power supply         280 W           Power factor correction/active power         active           Monitor outlet         No           Power consumption         Power consumption note           Link to Energy White Paper         http://docs.ts.fujitsu.com/dl.aspx?id=cbab6857-c962-423e-9fa4-0859274833cf           Heat dissipation         See white paper Energy Consumption           Noise emission         See white paper Energy Consumption           Related Processors for noise         Intel® Core™ i7 3770           Standard noise emission         2x2 GB, HDD, ODD, Windows According to ISO 7779:2010, ECMA-74           Standard noise notes / description         A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A)) Bystander position           Standard noise operation mode: CPU         3.5 B / 22 dB(A) Bystander; 25 dB(A) Operator position           Standard noise operation mode: HDD         3.6 B / 23 dB(A) Bystander; 26 dB(A) Operator position	Rated voltage range	
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Bystander position  Standard noise operation mode: CPU 3.5 B / 22 dB(A) Bystander; 25 dB(A) Operator position  50% load  Standard noise operation mode: HDD load  3.6 B / 23 dB(A) Bystander; 26 dB(A) Operator position	Standard noise notes / description	
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load	•	
	Standard noise operation mode: HDD	3.6 B / 23 dB(A) Bystander; 26 dB(A) Operator position
mode	Standard noise operation mode: Idle	3.5 B / 22 dB(A) Bystander; 25 dB(A) Operator position

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Noise emission	
Standard noise operation mode: ODD load	4.5 B / 31 dB(A) Bystander; 37 dB(A) Operator position
Standard noise operation mode: Office applications 2.0	3.5 B / 22 dB(A) Bystander; 25 dB(A) Operator position
Dimensions / Weight / Environmental	
Dimensions (W x D x H)	175 x 425 x 353 mm
,	6.89 x 16.74 x 13.9 inch
Operating position	Vertical
Weight	9 kg
Weight (lbs)	20.22 lbs
Weight notes	Actual weight may vary depending on configuration
Operating ambient temperature	10 - 35 °C (50 - 95 °F)
Compliance	
Product	ESPRIMO P410
Model	MI4W
Europe	CE
Global	RoHS (Restriction of hazardous substances)
	WEEE (Waste electrical and electronic equipment)
	Microsoft Operating Systems (HCT / HCL entry / WHQL)
	ENERGY STAR® in progress
	EPEAT® in progress (dedicated regions)
Compliance link	http://globalsp.ts.fujitsu.com/sites/certificates
Additional Software	
Additional software (preinstalled)	Adobe® Reader®
,	McAfee Multi Access (anti virus and internet security software; 60 days trial version)
	Win7: Fujitsu Recovery (Hard Disk Based Recovery)
	Win8: Microsoft Push Button Recovery (Hard Disk Based Recovery)
	Microsoft Office - buy license to activate the pre-installed Microsoft Office
Additional software (optional)	Recovery DVD for Windows®
	Drivers & Utilities DVD (DUDVD)
	CyberLink PowerDVD (BD/DVD playback software for Blu-ray Disc™)
	CyberLink PowerDVD (DVD playback software)
	Nero Essentials XL
Miscellaneous	
Compatibility (references)	
	DMI 2.0
	PC 2001
	WMI 1.5
	USB 2.0
	SMBIOS
Manageability	
Manageability technology	DeskUpdate Driver management
- · · · · · · · · · · · · · · · · · · ·	PXE 2.1 Boot code
	Wake up from S5 (off mode)
	WoL (Wake on LAN)
Security	
Physical Security	Kensington Lock support
,	Eye for padlock
System and BIOS Security	Boot sector virus protection
	Control of external interfaces
User Security	User and supervisor BIOS password
	Hard disk password
	Access protection via external SmartCard reader (optional)
	Access protection via internal SmartCard reader (optional)

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Packaging information		
Packaging dimension (mm)	500 x 290 x 540 mm	
Packaging dimension (inch)	19.69 x 11.42 x 21.26 inch	
Max. quantity / pallet	24	
Material - Weight (g) Carton	1270 g	
Material - Weight (lbs) Carton	2.8 lbs	
Material - Weight (g) EPS / PS	160 g	
Material - Weight (lbs) EPS / PS	0.35 lbs	
Material - Weight (g) PE	60 g	
Material - Weight (lbs) PE	0.13 lbs	
Packaging notes	printed user documentation is bleached in chlorine free process	
Warranty		
Standard Warranty	1 year	
Service level	Bring-In / Onsite Service (for countries within region FTS CEMEA&I, for all other countries depending on local	
	regulations, minimum: 1 year material warranty)	
Warranty Terms & Conditions	http://support.ts.fujitsu.com/warranty	
Maintenance and Support Services - the perfect extension		
Recommended Service	9x5, Response Time: Next Business Day	
Spare Parts availability	3 years after end of product life	
Service Weblink	http://www.fujitsu.com/fts/services/support	

# Recommended Accessories

Display E19-6 LED



The Fujitsu Display E19-6 LED combines comfortable ergonomics with best- Order Code: in-class energy saving technology like ECO operation mode. S26361-K1376-V160

Display E22W-6 LED



The Fujitsu Display E22W-6 LED combines comfortable ergonomics with best-in-class energy saving technology like ECO operation mode.

Order Code: S26361-K1377-V160

Mouse M440 ECO



Fujitsu Mouse M440 ECO is made from 100% bio material and has a completely PVC free cable. The elegant M440 ECO works on nearly every surface and follows all your hand movements smoothly and precisely. It features two main buttons and as well as a scroll wheel providing comfortable computing to both right and left-handed users.

Order Code: S26381-K450-L200

CELVIN® Drive D100



The CELVIN® Drive D100 is a highly reliable external storage device with a standard USB-interface for easy Plug & Play use with a notebook or PC. It is S26341-F103-L118 also easy to set up additional home network capacity by connecting it with dedicated routers or NAS devices.

Order Code:

SOUNDSYSTEM DS E2000 Air



The new more powerful SOUNDSYSTEM DS E2000 Air gives you impressive, well-balanced sound throughout the frequency band. It is an unbeatable USB speaker set with a surprisingly small form factor. The robust satellite speakers are decorated with a deluxe piano finish and the base is adorned with warm ambient lighting.

Order Code: S26391-F7128-L600

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## WebCam 130 HD2



With the most advanced HD (High Definition / 720p) recording feature and Order Code: widescreen video format (16:9 and 16:10), WebCam 130 HD2 can capture up to 30 frame rate per second, close up to HD/720p quality video. Even more: 1-Click-Upload makes the video uploading to YouTube in a snap! With smart clip for notebook & LCD display it is easy to install on any device you want.

S26391-F7136-L5

# HS E2000 Communicator Headset



The Fujitsu HS E2000 Communicator headset allows you to use your personal computer for Voice over IP (VoIP) in stereo audio quality. This premium headset is designed to provide superb audio quality and comfort for the telephony, internet chat, speech recognition, video conferencing and multimedia applications.

Order Code: S26391-F7139-L5

## Keyboard KBPC PX ECO



Fujitsu's KBPC PX ECO keyboard is the perfect contribution to Green IT. The keyboard is made out of 45% renewable raw material and comes with a PVC country specific variation) free USB cable. In addition, the KBPC PX ECO offers first class comfort and ergonomics. It attracts attention with its impressive modern design and useful extras.

S26381-K341-L1\*\* (\*\*:

## Keyboard KB900



The KB900 is a very flat keyboard with extra low keys and spill-resistant protection. The elegant design and top-quality construction makes the KB900 the ideal input device for any PC or Notebook user. If you accidently spill some water or coffee onto the keyboard, this special construction helps the liquid to flow away.

S26381-K560-L4\*\* (\*\*: Country specific variation)

# Wireless Keyboard Set LX900



The Wireless Keyboard LX900 is a top of the line desktop solution for lifestyle orientated customers, who want only the best for their desk. This superb keyboard set with offers ambitious users more functions, security and better features than a conventional interface device. It even includes 2.4 GHz technology and 128 AES encryption for security.

S26381-K564-L4\*\* (\*\*: Country specific variation)

# More information

## **Fujitsu OPTIMIZATION Services**

In addition to Fujitsu ESPRIMO P410 E85+, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

## Fujitsu Portfolio

Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

# **Computing Products**

www.fujitsu.com/global/services/computing/

#### Software

www.fujitsu.com/software/

## More information

Learn more about Fujitsu ESPRIMO P410 E85+, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.

www.fujitsu.com/fts/ESPRIMO

# Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT. Please find further information at http://www.fujitsu.com/global/about/environment/



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